

**Amendments to the Claims:**

This Listing of Claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently amended) A composition ~~for use in making commercial products~~, consisting essentially of the S enantiomer of equol (S-equol).
2. (Previously presented) The composition according to Claim 1 wherein the composition is made by substantially isolating S-equol from a racemic mixture of S-equol and R-equol.
3. Canceled.
4. (Previously presented) The composition according to Claim 2 wherein the isolated S-equol has an enantiomeric purity of 90% minimum enantiomeric excess (EE).
5. (Original) the composition according to Claim 4 wherein the S-equol has an enantiomeric purity of 96% minimum EE.

6-11. Canceled.

12. (Previously presented) A food composition comprising an additive component consisting essentially of the S-enantiomer of equol (S-equol).
13. (Previously presented) The food composition according to Claim 12, wherein the food comprises, per serving of food, at least about 1 mg, and up to about 300 mg, S-equol.
14. (Previously presented) The food composition according to Claim 12, wherein the food comprises, per serving of food, at least about 10 mg, and up to about 200 mg, S-equol.
15. (Previously presented) The food composition according to Claim 12, the additive further comprising R-equol, the food composition having a non-racemic ratio of S-equol and R-equol.
16. (Previously presented) A composition for topical application to skin, comprising equol consisting essentially of S-equol, and a vehicle.
17. (Previously presented) The composition according to Claim 16, comprising by weight at least 0.1%, and up to 10%, of S-equol.

18. (Previously presented) The composition according to Claim 16 where the S-equol is conjugated at the C-4' or C-7 position to form a conjugate selected from the group consisting of glucuronide, sulfate, acetate, propionate, glucoside, acetyl-glucoside, malonyl-glucoside, and mixtures thereof.
19. (Previously presented) The composition according to Claim 16, further comprising R-equol, the composition having a non-racemic ratio of S-equol and R-equol.
- 20-43. Canceled.
44. (Previously presented) The composition according to Claim 1 where the S-equol is conjugated at the C-4' or C-7 position to form a conjugate selected from the group consisting of glucuronide, sulfate, acetate, propionate, glucoside, acetyl-glucoside, malonyl-glucoside, and mixtures thereof.
45. (Previously presented) The food composition according to Claim 12 where the S-equol is conjugated at the C-4' or C-7 position to form a conjugate selected from the group consisting of glucuronide, sulfate, acetate, propionate, glucoside, acetyl-glucoside, malonyl-glucoside, and mixtures thereof.

46-49. Canceled

50. (New) The composition of claim 1, wherein the composition is a pharmaceutical composition.
51. (New) The composition of claim 50, further comprising a pharmaceutically acceptable adjuvant, carrier, or excipient.